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Names and Authors Used for Fungi at the Great Lakes Forestry Centre

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THE GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

Forestry problems are continually assessed by the Canada-Ontario Joint Forestry Research Committee, made up chiefly of senior members of the Centre and the Ontario Ministry of Natural Resources. The Committee ensures that the research resources of both agencies are effectively transmitted to the forest managers in order to improve forest production and protection, and the quality of the environment.

Staff of the forestry development program negotiate and administer federal-provincial cost-sharing agreements with the province of Ontario, conduct economic studies, and implement job creation programs in the forest sector. Again, this requires close cooperation with the Ontario Ministry of Natural Resources and with other provincial and federal agencies concerned with the forest sector.

Close working relations are also maintained by the Centre with educational institutions specializing in forestry and the biological sciences, with the forest industry, and with other forestry organizations in the province.

The Centre recognizes that forested land must be managed in the best public interest, not only for the wood production essential to our economy but also for the recreational purposes that are so important to our social well-being. These goals must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

FOREWORD

This list has been prepared to serve as a guide to names and authors of those fungi commonly encountered by the Field Technicians of the Forest Insect and Disease Survey Unit at the Great Lakes Forestry Centre. Pathologists and others who have to deal with fungal nomenclature should also find this guide useful. Many recent changes in the names of fungi, as well as changes to the International Code of Botanical Nomenclature made at the XIII International Botanical Congress, are reflected in this list. Perhaps most noteworthy is the use of : in place of ex with names sanctioned by Fries (:Fr.) or Person (:Pers.).

The common names used are based on those presented in *Names of Plant Diseases in Canada* (Anon. 1975. Agriculture Quebec, Publ. QA38-R4-1, 2nd ed.), but some have been modified by the addition of a host or fungal genus. Hosts listed are those recognized in Ontario and the common names are those used in *Native Trees of Canada* (R.C. Hosie, 1979 Fitzhenry & Whiteside Ltd. in coop. with Can. For. Serv., 8th ed.). Teleomorphs (the perfect or sexual state) have been included where known and should be used in reports in preference to the name given to the anomorph (the imperfect or asexual state). The author abbreviations are those presented in *Recommended Abbreviations for the Names of Some Commonly Cited Authors of Fungi* (D.L. Hawksworth, 1980. Rev. Pl. Path. 59(II)D:473-480). Three indices, one using the recommended name first and accompanied by the more common synonyms, a second listing the synonyms first and accompanied by the recommended name, and a third listing common names and accompanied by the recommended Latin binomial are included. The synonyms are those in common use; many older synonyms have been omitted. Those fungi found in the tables of synonymy are indicated by an asterisk. Two lined, blank pages have been provided so that additional fungi or corrections can be listed.

We recognize that not all mycologists or pathologists will agree with our choice of names and we welcome any suggestions or corrections you wish to make. If you believe that we are in error, we would appreciate it if you would provide a reference as well as what you think the correct name should be. Also, if you think that some fungi should be added to future additions, we would welcome your suggestions. A second edition of this list will be produced in two or three years so all comments will be useful.

The authors would like to express their appreciation to the laboratory staff of the Mycology Section of the Forest Insect and Disease Survey Unit who assisted with this project in so many ways. Special thanks go to Dr. J. Ginns of the Biosystematics Research Institute in Ottawa for answering our many questions and for reviewing many of these names and authors.

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Cover photo: Tar spot, *Rhytisma acerinum* (Pers.) Fr., on red maple (*Acer rubrum* L.).

PART I

MAIN ENTRIES*

* Listed in alphabetical order by scientific name

Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Apiognomonia quercina (Kleb.) Höhnel*[a]	A	oaks	anthracnose	
Apiognomonia veneta (Sacc. & Speg.) Höhnel*	A	sycamore	anthracnose	
Apiosporina collinsii (Schwein.) Höhnel	A	serviceberries	apiosporina witches' broom	
Apiosporina morbosa (Schwein.) v. Arx*	A	cherries, plums	black knot	
Arceuthobium americanum Nutt. ex Engel.	N/A	jack pine, black spruce	dwarf mistletoe	
Arceuthobium pusillum Peck	N/A	spruces, esp. black spruce	eastern dwarf mistletoe	
Armillaria mellea (Vahl : Fr.) Kummer*	B	hardwoods and conifers	armillaria root rot	
Ascocalyx abietina (Lagerb.) Schläpfer - Bernhard*	A	N. Amer. race--pines Eur. race--pines, spruces, firs, larches	scleroderris canker	
Ascocoryne sarcoides (Jacq. ex Gray) J.W. Groves & D. Wilson	A	spruces	pink stain	
Asterosa caryae (Peck) B. Sutton*	D	hickories	leaf spot of hickory	*Gnomonia caryae* var. *caryae*
Asterosa fraxini (Berk. & M.A. Curtis) Petrak*	D	ashes	leaf spot of ash	*Mycosphaerella effigurata*
Atopospora betulina (Fr.) Petrak	A	birch	leaf spot	
Aureobasidium apocryptum (Ell. & Ev.) Hermanides-Nijhof*	D	maples	anthracnose	
Aureobasidium pullulans (de Bary) Arnaud*	D	cosmopolitan	pullularia	
Bifusella linearis (Peck) Höhnel*	A	eastern white pine	needle cast	
Bjerkandera fumosa (Fr.) Karsten*	B	hardwoods, rare on conifers	white rot of hardwoods	
Blumeriella jaapii (Rehm) v. Arx*	A	cherries and plums	shot-hole	
Botryodiplodia hypodermia (Sacc.) Petrak	D	elms	elm canker	
Botryosphaeria stevensii R. Shoem.	A	elms, other hardwoods	twig dieback	
Botryotinia fuckeliana (de Bary) Whetzel*	A	nursery stock and house plants	gray mold	
Botrytis cinerea Pers. : Fr.	D	nursery stock and house plants	gray mold	*Botryotinia fuckeliana*

[a] All entries with an asterisk are listed in the indices of synonymy.
[b] classification by subdivision, A = Ascomycotina; B = Basidiomycotina; D = Deuteromycotina; N/A = organisms other than fungi.

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Brunchorstia pinea (P. Karsten) Höhnel	D	N. Amer. race--pines Eur. race--pines, firs, spruces, larches	scleroderris canker	*Ascocalyx abietina*
Bursaphelenchus xylophilus (Steiner & Buhrer) Nickle*	N/A	pines, larches	pinewood nematode	
Caliciopsis pinea Peck	A	eastern white pine	caliciopsis canker	
Calonectria kyotensis Terashita	A	conifer, nursery stock	root rot	
Canangium ferruginosum Fr. : Fr.	A	jack pine, Scots pine	twig blight	
Ceratocystis coerulescens (Münch) Bakshi	A	hardwoods and conifers	sap streak	
Ceratocystis ulmi (Buism.) C. Moreau*	A	elms	Dutch elm disease	
Chalara ungeri Sacc.	D	hardwoods and conifers	sap streak	*Ceratocystis coerulescens*
Chlorosplenium aeruginascens (Nyl.) Karsten	A	rotting wood, esp. oak	green stain	
Chrysomyxa arctostaphyli Dietel	B	spruces alt. bearberry	spruce broom rust	
Chrysomyxa ledi (Alb. & Schwein.) de Bary var. ***ledi*** var. ***cassandrae*** (Peck & G.P. Clinton) Savile	B	spruces alt. Labrador tea alt. on leatherleaf	spruce needle rust	
Chrysomyxa ledicola (Peck) Lagerh.	B	spruces alt. Labrador tea	spruce needle rust	
Chrysomyxa pirolata (Körn.) Winter	B	spruces alt. pyrolas	spruce cone rust	
Ciborinia whetzelii (Seaver) Seaver	A	trembling aspen	ink spot of aspen	
Cladosporium humile J. Davis	D	maples	maple leaf spot	*Venturia acerina*
Coccomyces strobi J. Reid & Cain	A	eastern white pine and red pine	coccomyces canker	
Coleosporium asterum (Dietel) Sydow*	B	pines alt. goldenrods, asters	pine needle rust	
Coleosporium pinicola (Arthur) Arthur	B	jack pine	pine needle rust	
Coleosporium viburni Arthur	B	jack pine alt. viburnums	pine needle rust	
Colletotrichum crassipes (Speg.) v. Arx	D	willows	black canker of willow	*Glomerella miyabeana*

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Coniophora puteana (Schumacher : Fr.) Karsten	B	conifers and hardwoods	brown rot	
Cordana pauciseptata Preuss	D	maples, birches, spruces, balsam fir	blue stain	
Cornicularíella spina (Berk. & Rav.) DiCosmo	D	hardwoods, esp. ashes	canker	*Durandiella fraxini*
Coryne dubia (Pers.) Gray	D	spruces	pink stain	*Ascoryne sarcoides*
Coryneum umbonatum Nees ex Steudel*	D	oaks	twig and shoot blight	*Pseudovalsa longipes*
Cronartium coleosporioides Arthur f.sp. *coleosporioides*	B	pines alt. Indian paint brush	orange stalactiform blister rust	
Cronartium comandrae Peck	B	pines alt. bastard toad flax and northern bastard toad flax	comandra blister rust	
Cronartium comptoniae Arthur	B	pines alt. sweet gale, sweet fern	sweet fern blister rust	
Cronartium quercuum (Berk.) Miyabe ex Shirai f. sp. *banksianae*	B	pines--jack pine, Scots pine alt. oaks	eastern gall rust	
Cronartium ribicola J.C. Fischer	B	eastern white pine alt. currants, gooseberries	white pine blister rust	
Cryptodiaporthe hystrix (Tode) Petrak	A	maples	maple dieback	
Cryptodiaporthe populea (Sacc.) Butin*	A	poplars	poplar canker	
Cryptodiaporthe salicella (Fr.) Petrak	A	willows	willow dieback	
Cryptoporus volvatus (Peck) Hubbard*	B	conifers	trunk rot	
Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter*	A	pines--Austrian, Scots and mugho	needle cast	
Cyclaneusma niveum (Pers. : Fr.) DiCosmo Peredo & Minter*	A	pines	needle cast	
Cylindrocladium floridanum Sob. & C.P. Seym.	D	conifer nursery stock	root rot	*Calonectria kyotensis*
Cylindrosporella betulae-papyriferae (Dearn. & Overh.) v. Arx	D	paper birch	birch leaf spot	
Cylindrosporium juglandis Wolf	D	black walnut	walnut leaf spot	*Mycosphaerella juglandis*

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Cytospora annulata Ell. & Ev.	D	maples	cytospora canker	*Valsa ambiens* spp. *leucostomoides*
Cytospora chrysosperma (Pers. : Fr.) Fr.	D	poplars, willows	cytospora canker	*Valsa sordida*
Cytospora cincta Sacc.	D	mountain-ash, cherries	branch canker	*Leucostoma cincta*
Cytospora kunzei Sacc.	D	spruces, tamarack	cytospora canker	*Leucostoma kunzei*
Cytospora leucosperma (Pers. : Fr.) Fr.	D	hardwoods	cytospora canker	*Valsa ambiens* spp. ambiens
Cytospora leucostoma (Pers. : Fr.) Fr.*	D	alders	cytospora canker	*Leucostoma persoonii*
Cytospora nivea (Hoffm.) Fr.*	D	willows, poplars	cytospora canker	*Leucostoma nivea*
Cytospora pinastri Fr.*	D	balsam fir	needle blight	*Valsa friesii*
Cytospora pini Desm.	D	eastern white pine	cytospora canker	*Valsa pini*
Cytospora pruinosa (Fr.) Sacc.*	D	white ash	cytospora canker	*Valsa cypri*
Cytosporina ludibunda (Sacc.) Sacc.	D	white elm	twig canker	
Davisomycella ampla (J. Davis) Darker*	A	jack pine	tar spot needle cast	
Delphinella balsameae (Waterman) E. Müller*	A	balsam fir	delphinella tip blight	
Dermea balsamea (Peck) Seaver	A	balsam fir, hemlock	dermea twig canker	
Didymascella thujina (E. Durand) Maire*	A	cedars	keithia needle blight	
Didymochora betulina Höhnel	D	birch	leaf spot	*Atopospora betulina*
Diplodia mutila (Fr.) Mont.	D	elms and other hardwoods	diplodia twig dieback	*Botryosphaeria stevensii*
Diplodia tumefaciens (Shear) Zalasky*	D	poplars	rough bark	*Keissleriella emergens*
Diplodina acerina (Pass.) B. Sutton*	D	maples	diplodina leaf spot	*Cryptodiaporthe hystrix*
Diplodina microsperma (Johnston) B. Sutton*	D	willows	dieback	*Cryptodiaporthe salicella*
Discosporium populeum (Sacc.) B. Sutton*	D	poplars	canker and dieback	*Cryptodiaporthe populea*
Discula betulina (Westend.) v. Arx*	D	birches	anthracnose	
Discula campestris (Pass.) v. Arx*	D	maples	anthracnose	
Discula platani (Peck) Sacc.*	D	sycamore	anthracnose	*Apiognomonia venata*
Discula quercina (Westend.) v. Arx*	D	oaks	anthracnose	*Apiognomonia quercina*

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Dothiorella quercina (Cooke & Ell.) Sacc.	D	red oaks	canker and dieback	
Dothistroma septospora (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton[c] var. *septospora**	D	Austrian pine	red band disease	*Mycosphaerella pini*
Drepanopeziza populi-albae (Kleb.) Nannf.	A	poplars	poplar leaf spot	
Drepanopeziza populorum (Desm.) Höhnel	A	poplars	poplar leaf spot	
Durandiella fraxini (Schwein. : Fr.) Seaver	A	hardwoods, esp. ashes	canker, branch dieback	
Endocronartium harknessii (J.P. Moore) Y. Hirats.	B	pines	western gall rust	
Erwinia amylovora (Burr.) Winslow et al.[d]	N/A	mountain-ash, apples, flowering crabs	fire blight	
Eutypella parasitica Davidson & Lorenz	A	sugar maple	eutypella canker	
Fomes fomentarius (Fr.) Kickx	B	hardwoods	white mottled rot	
Fomitopsis pinicola (Swartz : Fr.) Karsten*	B	hardwoods and conifers	brown crumbly rot	
Foveostroma abietinum (Peck) DiCosmo*	D	balsam fir, hemlock, eastern white pine	twig canker	*Dermea balsamea*
Ganoderma applanatum (Pers.) Pat.*	B	hardwoods, occasional on conifers	white mottled rot	
Ganoderma lucidum (Curt. : Fr.) Karsten*	B	hardwoods, conifers	root and butt rot	
Gloeophyllum saepiaria (Wulfen : Fr.) Karsten*	B	spruces, pines	brown cubical rot	
Glomerella miyabeana (Fukushi) v. Arx*	A	willows	black canker of willow	
Gnomonia caryae Wolf var. *caryae*	A	hickories	anthracnose	
Gnomonia leptostyla (Fr.) Ces. & de Not.	A	walnuts	anthracnose	
Guignardia aesculi (Peck) Stewart	A	horse-chestnut	leaf blotch	
Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck	B	junipers, alt. hawthorns, serviceberries	quince rust	

[c] *D. septospora* var. *lineare* not currently found in Ontario.
[d] C.-E.A. Winslow as chairman of a committee on bacterial nomenclature established by the Society of American Bacteriologists.

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Gymnosporangium cornutum Arthur ex Kern	B	junipers, alt. mountain-ash	gall rust	
Gymnosporangium globosum Farlow	B	junipers, alt. hawthorns	globose gall rust	
Gymnosporangium juniperi-virginianae Schwein.	B	junipers alt. apples	cedar-apple rust	
Heterobasidion annosum (Fr.) Bref.*	B	conifers	fomes root rot	
Hypodermella laricis Tubeuf	A	larches	larch needle cast	
Hypoxylon cohaerens Pers. : Fr.	A	beech	canker and dieback	
Hypoxylon mammatum (Wahlenb.) J. Miller*	A	maples, poplars, yellow birch	hypoxylon canker	
Inonotus circinatus (Fr.) Gilbertson*	B	conifers	circinatus root rot	
Inonotus obliquus (Pers. : Fr.) Pilát*	B	birches	white spongy rot	
Inonotus tomentosus (Fr.) Gilbertson*	B	conifers	tomentosus root rot	
Irpex tulipiferae (Schwein.) Fr.*	B	hardwoods	white sap rot	
Ischnoderma resinosum (Schrader : Fr.) Karsten*	B	hardwoods and conifers	trunk rot	
Isthmiella crepidiformis (Darker) Darker*	A	black spruce	needle cast	
Isthmiella faullii (Darker) Darker*	A	balsam fir	needle cast	
Kabatiella borealis (Ell. & Ev.) v. Arx*	D	poplars, willows	anthracnose	
Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx) Morelet var. *thujae*	D	junipers, cedars	needle blight	
Keissleriella emergens (Karsten) Bose	A	poplars	rough bark	
Lecanosticta acicola (Thüm.) H. Sydow	D	pines	brown-spot needle blight	*Mycosphaerella dearnessii*
Leucostoma cincta (Fr.) Höhnel*	A	mountain-ash, cherries	branch canker	
Leucostoma kunzei (Fr.) Munk	A	tamarack, spruces, eastern white pine	cytospora canker	
Leucostoma nivea (Hoffm. : Fr.) Höhnel	A	willows, poplars	cytospora canker	
Leucostoma persoonii (Nitschke) Höhnel	A	alders	cytospora canker	
Linospora arctica Karsten var. *helvetica* Rehm	A	willows	linospora leaf blight	

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Linospora tetraspora G.E. Thompson	A	balsam poplar	linospora leaf blight	
Lirula mirabilis (Darker) Darker*	A	balsam fir	needle cast	
Lirula nervata (Darker) Darker*	A	balsam fir	needle cast	
Lophodermella montivaga Petrak*	A	pines	needle cast	
Lophodermella sulcigena (Rostrup) Höhnel*	A	pines	needle cast	
Lophodermium australe Dearn.	A	pines	needle cast	
Lophodermium conigenum (Brunaud) Hilitz.	A	pines	needle cast	
Lophodermium juniperinum (Fr.) de Not.*	A	junipers	needle cast	
Lophodermium nitens Darker	A	white and red pine seedlings	needle cast	
Lophodermium piceae (Fuckel) Höhnel	A	spruces	needle cast	
Lophodermium pinastri (Schrader : Fr.) Chev.	A	pines	needle cast	
Lophodermium seditiosum Minter, Staley & Millar	A	pines	needle cast	
Lophophacidium dooksii Corlett & R. Shoem.	A	eastern white pine	needle blight	
Lophophacidium hyperboreum Lagerb.	A	spruces	snow blight	
Marssonina brunnea (Ell. & Ev.) Magnus*	D	poplars	marssonina leaf spot	
Marssonina castagnei (Desm. & Mont.) Magnus*	D	poplars	marssonina leaf spot	*Drepanopeziza populi-albae*
Marssonina juglandis (Lib.) Magnus	D	hickories, walnuts	hickory leaf spot	*Gnomonia leptostyla*
Marssonina populi (Lib.) Magnus*	D	poplars	marssonina leaf spot	*Drepanopeziza populorum*
Marssonina rhabdospora (Ell. & Ev.) Magnus	D	poplars	marssonina leaf spot	*Pleuroceras populi*
Massaria inquinans (Tode : Fr.) de Not.*	A	sugar maple	leaf spot	
Melampsora abieti-caprearum Tubeuf	B	balsam fir, alt. willows	fir-willow, rust	
Melampsora abietis-canadensis C.A. Ludwig ex Arthur	B	eastern hemlock, alt. poplars	hemlock-poplar rust	
Melampsora epitea Thüm.	B	eastern hemlock, alt. willows	hemlock-willow rust	

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Melampsora medusae Thüm.*	B	tamarack, alt. poplars	larch-poplar rust	
Melampsora paradoxa Dietel & Holway	B	tamarack, alt. willows	larch-willow rust	
Melampsorella caryophyllacearum Schröter	B	balsam fir	fir broom rust	
Melasmia acerina Lév.	D	maples	tar spot	*Rhytisma acerinum*
Melasmia punctata Sacc. & Roum.	D	maples	speckle tar spot	*Rhytisma punctatum*
Melasmia salicina Lév.	D	maples	tar spot	*Rhytisma salicinum*
Meria laricis Vuill.	D	European larch	larch needle cast	
Microstroma juglandis (Bereng.) Sacc.	D	hickories, walnuts, butternut	white mold	
Monilinia fructicola (Winter) Honey*	A	cherries	brown rot	
Monostichella robergei (Desm.) Höhnel*	D	blue beech	leaf spot	*Sphaerognomonia carpinea*
Monostichella salicis (Westend.) v. Arx*	D	willows	black canker	
Mycosphaerella dearnessii Barr*	A	pines	brown-spot needle blight	
Mycosphaerella effigurata (Schwein.) House	A	ashes	ash leaf spot	
Mycosphaerella juglandis Kessler	A	black walnut	walnut leaf spot	
Mycosphaerella pini Rostrup	A	Austrian pine	red band disease	
Mycosphaerella populicola G.E. Thompson	A	balsam poplar, other poplars	septoria leaf spot	
Mycosphaerella populorum G.E. Thompson	A	balsam poplar, exotics and hybrids	septoria leaf spot	
Nectria cinnabarina (Tode : Fr.) Fr.*	A	hardwoods	nectria canker	
Nectria galligena Bresad.	A	hardwoods	nectria canker	
Nothophacidium abietinellum (Dearn.) J. Reid & Cain*	A	balsam fir	snow blight	
Oxyporus populinus (Schumacher : Fr.) Donk*	B	maples and other hardwoods	white spongy rot	
Pesotum ulmi (Schwarz) Crane & Schoknecht*	D	elms	Dutch elm disease	*Ceratocystis ulmi*
Phacidium abietis (Dearn.) J. Reid & Cain*	A	conifers	snow blight	

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Phacidium balsamicola (Smerlis) DiCosmo, Nag Raj & Kendrick*	A	firs	snow blight	
Phacidium coniferarum (Hahn) DiCosmo, Nag Raj & Kendrick*	A	conifers	snow blight	
Phacidium infestans Karsten	A	conifers	snow blight	
Phaeocryptopus gaeumannii (Rohde) Petrak*	A	Douglas fir	Swiss needle cast	
Phaeolus schweinitzii (Fr.) Pat.*	B	hardwoods and conifers	brown cubical rot	
Phaeoramularia maculicola (Romell & Sacc.) B. Sutton*	D	poplars	leaf spot	
Phellinus everhartii (Ell. & Gall.) A. Ames*	B	hardwoods	white spongy rot	
Phellinus igniarius (L. : Fr.) Quélet*	B	hardwoods, esp. willows	white trunk rot	
Phellinus pini (Brot. : Fr.) A. Ames*	B	conifers	red ring rot	
Phellinus tremulae (Bondartsev)[c] Bondartsev & Borisov*	B	poplars	white trunk rot	
Phloeosporella padi (Lib.) v. Arx*	D	cherries and plums	shot-hole	*Blumeriella jaapii*
Phyllactinia guttata (Wallr. : Fr.) Lév.	A	hazelnut	powdery mildew	
Phyllosticta minima (Berk. & Curt.) Underw. & Earle	D	maples	leaf spot	
Phyllosticta negundinis Sacc. & Speg.	D	Manitoba maple	leaf spot	
Phyllosticta sphaeropsoidea Ell. & Ev.*	D	horse-chestnut	leaf blotch	*Guignardia aesculi*
Pleurocoeras populi G.E. Thompson	A	poplars	leaf spot	
Podosphaera clandestina (Wallr.: Fr.) Lév.*	A	serviceberries	powdery mildew	
Pollaccia elegans Servit	D	balsam poplar	shoot blight	*Venturia populina*
Pollaccia radiosa (Lib.) Bald. & Cif.	D	trembling aspen	shoot blight of aspen	*Venturia macularis*
Pollaccia saliciperda (Allescher & Tubeuf) v. Arx*	D	willows	willow scab	*Venturia salciciperda*
Pseudovalsa longipes (Tul.) Sacc.	A	oaks	twig and shoot blight	

[c] Also as Bondarcev or Bondartsev.

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Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Pucciniastrum epilobii Otth	B	balsam fir, alt. fireweed	fireweed rust	
Pucciniastrum goeppertianum (Kühn) Kleb.	B	balsam fir alt. blueberry	witches' broom on blueberry	
Pycnoporus cinnabarinus (Jacq. : Fr.) Karsten*	B	hardwoods, rarely conifers	white sap rot	
Rhabdocline pseudotsugae Sydow ssp. *pseudotsugae*	A	Douglas fir	rhabdocline needle cast	
Rhisina undulata Fr.*	A	conifers, esp. seedlings, follows burns	tea pot fungus	
Rhizosphaera kalkhoffii Bubák	D	spruces	needle blight	
Rhizosphaera pini (Corda) Maubl.*	D	balsam fir, spruces	needle blight	
Rhytisma acerinum (Pers.) Fr.*	A	maples	tar spot	
Rhytisma punctatum (Pers.) Fr.	A	maples	speckle tar spot	
Rhytisma salicinum (Pers.) Fr.	A	willows	tar spot	
Sarcotrochila balsameae (J. Davis) Korf*	A	balsam fir	snow blight	
Sarcotrochila piniperda (Rehm) Korf	A	spruces	snow blight	
Schizophyllum commune Vaill. : Fr.	B	hardwoods, some conifers		
Sclerophoma pythiophila (Corda) Höhnel	D	pines, black spruce, junipers	needle blight	*Sydowia polyspora*
Scoleconectria cucurbitula (Tode : Fr.) C. Booth	A	pines, balsam fir	canker and dieback	
Septoria aceris (Lib.) Berk. & R. Br.	D	maples	septoria leaf spot	
Septoria betulae Pass.*	D	birches	leaf blight	
Septoria musiva Peck	D	poplars	septoria canker	*Mycosphaerella populorum*
Septoria populicola Peck	D	poplars, esp. balsam poplar	leaf spot	*Mycosphaerella populicola*
Sirococcus conigenus (DC.) P. Cannon & Minter*	D	pines, blue spruce	shoot blight	
Sphaerognomonia carpinea (Fr.) Potebnia	A	blue beech	leaf spot	
Sphaeropsis sapinea (Fr.) Dyko & B. Sutton*	D	pines, usually Scots and Austrian	tip blight	

(cont'd)

Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Spilocaea pomi Fr.	D	apples, hawthorns, mountain-ash	apple scab	*Venturia inaequalis*
Spiniger meineckellus (A. Olson) Stalpers*	D	conifers, maples, chestnut, elms	fomes root rot	*Heterobasidion annosum*
Stegonsporium acerinum Peck*	D	maples		
Stegonsporium pyriforme (Hoffm. : Fr.) Corda*	D	maples		
Sydowia polyspora (Bref. & Thv.) E. Müller*	A	pines, black spruce, junipers	needle blight	
Taphrina caerulescens (Mont. & Desm.) Tul.	A	most oaks, not white oaks	leaf-blister	
Taphrina communis (Sadeb.) Gies.	A	cherries and plums	plum pockets	
Therrya fuckelii (Rehm) Kujala	A	pines	therrya canker	
Trichoderma viride Pers. : Fr.	D	cosmopolitan	trichoderma	
Tubakia dryina (Sacc.) B. Sutton*	D	principally oaks, but may be found on other hardwoods	leaf spot	
Tubercularia vulgaris Tode : Fr.	D	hardwoods	nectria canker	*Nectria cinnabarina*
Tympanis hypopodia Nyl.	A	jack pine, eastern white pine lodgepole pine	tympanis canker	
Tyromyces balsameus (Peck) Murrill*	B	conifers, esp. spruces and larches	brown cubical rot	
Uncinula adunca (Wallr. : Fr.) Lév.*	A	poplars, willows	powdery mildew	
Valsa ambiens (Pers. : Fr.) Fr. ssp. *ambiens*	A	hardwoods	cytospora canker	
Valsa ambiens (Pers. : Fr.) Fr. spp. *leucostomoides* (Peck) Spielman	A	maples	cytospora canker	
Valsa cypri (Tul.) Tul. & C. Tul.*	A	white ash	cytospora canker	
Valsa friesii (Duby) Fuckel	A	balsam fir	dieback	
Valsa pini Alb. & Schwein.: Fr.	A	eastern white pine	cytospora canker	
Valsa sordida Nitschke	A	poplars, willows	cytospora canker	
Venturia acerina Plakidas ex Barr	A	sugar maple, red maple	leaf spot	
Venturia inaequalis (Cooke) Winter*	A	apples, hawthorns, mountain ash	apple scab	

(cont'd)

(concl.)

Scientific name and author(s)	Subdivision[b]	Hosts	Common name	Teleomorph (if applicable)
Venturia macularis (Fr.) E. Müller & v. Arx*	A	trembling aspen	shoot blight	
Venturia populina (Vuill.) Fabric.	A	balsam poplar	shoot blight	
Venturia saliciperda Nüesch	A	willows	willow scab	
Verticicladiella procera Kendrick	D	red pine, eastern white pine	black root stain	
Verticillium albo-atrum Reinke & Berth.	D	hardwoods	verticillium wilt	
Verticillium dahliae Kleb.	D	hardwoods	verticillium wilt	
Zythia aurantiaca (Peck) Sacc.	D	dogwoods	canker	
Zythiostroma pinastri (Karsten) Höhnel	D	pines, balsam fir	canker and dieback	*Scoleconectria cucurbitula*

Future Considerations:

Pollaccia americana Ondrej

Pollaccia ramulosa (Desm.) Ondrej

As suggested by M. Ondrej in "Ein Beitrag zur Kenntnis der parasitischen imperfekten Pilz der Gattung *Pollaccia* Bald. et Cif. an Rappeln (*Populus* spp.)" Eur. J. For. Path. 2 (1972) 140-146.

See also Morelet, M. 1985. Les *Venturis* des peupliers de la section *Leuce* I. - Taxinomie. Cryptog. Mycol. 6:101-117.

PART II

INDEX OF RECOMMENDED NAMES WITH THE MORE COMMON SYNONYMS

Apiognomonia quercina (Kleb.) Höhnel
syn. *Gnomonia quercina* Kleb.

Apiognomonia veneta (Sacc. & Speg.) Höhnel
syn. *Gnomonia venata* (Sacc. & Speg.) Kleb.
syn. *Gnomonia platani* Kleb.

Apiosporina morbosa (Schwein.) v. Arx
syn. *Dibotryon morbosum* (Schwein.) Theiss. & Syd.

Armillaria mellea (Vahl : Fr.) Kummer
syn. *Armillariella mellea* (Vahl : Fr.) P. Karsten

Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard
syn. *Gremmeniella abietina* (Lagerb.) Morelet
syn. *Scleroderris lagerbergii* Gremmen

Asteroma caryae (Peck) B. Sutton
syn. *Cylindrosporella caryae* (Peck) Petrak

Asteroma fraxini (Berk. & M.A. Curtis) Petrak
syn. *Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev.

Aureobasidium apocryptum (Ell. & Ev.) Hermanides-Nijhof
syn. *Kabatiella apocrypta* (Ell. & Ev.) v. Arx

Aureobasidium pullulans (de Bary) Arnaud
syn. *Pullularia pullulans* (de Bary) Berkhout

Bifusella linearis (Peck) Höhnel
syn. *Hypoderma lineare* (Peck) Thüm.

Bjerkandera fumosa (Fr.) Karsten
syn. *Polyporus fumosus* (Fr.) Pers.

Blumeriella jaapii (Rehm) v. Arx
syn. *Coccomyces hiemalis* Higg.
syn. *Coccomyces prunophorae* Higg.

Botryotinia fuckeliana (de Bary) Whetzel
syn. *Sclerotinia fuckeliana* (de Bary) Fuckel

Bursaphelenchus xylophilus (Steiner & Buhrer) Nickle
syn. *Bursaphelenchus lignicolus* Mamiya & Kiyohara

Ceratocystis ulmi (Buism.) C. Moreau
syn. *Ophiostoma ulmi* (Buism.) Nannf.

Coleosporium asterum (Dietel) Sydow
syn. *Coleosporium solidiganis* Thüm.

Coryneum umbonatum Nees ex Steudel
syn. *Coryneum kunzei* Corda

Cryptoporus volvatus (Peck) Hubbard
syn. *Polyporus volvatus* Peck

Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter
syn. *Naemacyclus minor* Butin

Cyclaneusma niveum (Pers. : Fr.) DiCosmo, Peredo & Minter
syn. *Naemacyclus niveus* (Pers. : Fr.) Fuckel ex Sacc.

Cytospora leucostoma (Pers. : Fr.) Fr.
syn. *Leucocytospora leucostoma* (Pers.) Höhnel

Cytospora nivea (Hoffm.) Fr.
syn. *Leucocytospora nivea* (Hoffm.) Kobayashi

Cytospora pinastri Fr.
syn. *Cytospora friesii* Sacc.

Cytospora pruinosa (Fr.) Sacc.
syn. *Cytophoma pruinosa* (Fr.) Höhnel

Davisomycella ampla (J. Davis) Darker
syn. *Hypodermella ampla* (J. Davis) Dearn.

Delphinella balsameae (Waterman) E. Müller
syn. *Rehmiellopsis balsameae* Waterman

Didymascella thujiana (E. Durand) Maire
syn. *Keithia thujina* E. Durand

Diplodia tumefaciens (Shear) Zalasky
syn. *Macrophoma tumefaciens* Shear

Diplodina acerina (Pass.) B. Sutton
syn. *Discella acerina* (Pass.) v. Arx

Diplodina microsperma (Johnston) B. Sutton
syn. *Discella carbonacea* (Fr.) Berk. & Broome

Discosporium populeum (Sacc.) B. Sutton
syn. *Dothichiza populea* Sacc. & Briard

Discula betulina (Westend.) v. Arx
syn. *Gloeosporium betulinum* Westend.

Discula campestris (Pass.) v. Arx
syn. *Gloeosporium campestre* Pass.

Discula platani (Peck) Sacc.
syn. *Gloeosporium platani* (Mont.) Oudem.

Discula quercina (Westend.) v. Arx
syn. *Gloeosporium quercinum* Westend.

Dothistroma septospora (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
syn. *Dothistroma pini* Hulb.

Dothistroma septospora (Dorog.) Morelet var. *septospora*
syn. *Dothistroma pini* Hulb.

Fomitopsis pinicola (Swartz : Fr.) Karsten
syn. *Fomes pinicola* (Swartz : Fr.) Cooke

Foveostroma abietinum (Peck) DiCosmo
syn. *Gelatinosporium abietinum* Peck

Ganoderma applanatum (Pers.) Pat.
syn. *Fomes applanatus* (Pers. ex Wallr.) C. Gillet
syn. *Polyporus applanatus* Gray

Ganoderma lucidum (Curt. : Fr.) Karsten
syn. *Ganoderma tsugae* Murrill

Gloeophyllum saepiaria (Wulfen : Fr.) Karsten
syn. *Lenzites saepiaria* (Wulfen : Fr.) Fr.

Glomerella miyabeana (Fukushi) v. Arx
syn. *Physalospora miyabeana* Fukushi

Heterobasidion annosum (Fr.) Bref.
syn. *Fomes annosus* (Fr.) Karsten

Hypoxylon mammatum (Wahlenb.) J. Miller
syn. *Hypoxylon pruinatum* (Klozt.) Cooker

Inonotus circinatus (Fr.) Gilbertson
syn. *Polyporus circinatus* Fr.

Inonotus obliquus (Pers. : Fr.) Pilát
syn. *Poria obliqua* (Pers. : Fr.) Karsten

Inonotus tomentosus (Fr.) Gilbertson
syn. *Polyporus tomentosus* Fr.

Irpex tulipiferae (Schwein.) Fr.
syn. *Polyporus tulipiferae* (Schwein.) Overh.

Ischnoderma resinosum (Schrader : Fr.) Karsten
syn. *Polyporus resinosus* (Fr.) Schrader

Isthmiella crepidiformis (Darker) Darker
syn. *Bifusella crepidiformis* Darker

Isthmiella faullii (Darker) Darker
syn. *Bifusella faullii* Darker

Kabatiella borealis (Ell. & Ev.) v. Arx
syn. *Gloeosporium boreale* Ell. & Ev.

Lirula mirabilis (Darker) Darker
syn. *Hypodermella mirabilis* Darker

Lirula nervata (Darker) Darker
syn. *Hypodermella nervata* Darker

Lophodermella montivaga Petrak
syn. *Hypodermella montivaga* (Petrak) Dearn.

Lophodermella sulcigena (Rostrup) Höhnel
syn. *Hypodermella sulcigenum* (Rostrup) Tubeuf

Lophodermium juniperinum (Fr.) de Not.
syn. *Lophodermium juniperi* (Grev.) Darker

Marssonina brunnea (Ell. & Ev.) Magnus
syn. *Gloeosporium brunneum* Ell. & Ev.

Marssonina castagnei (Desm. & Mont.) Magnus
syn. *Gloeosporium castagnei* Desm. & Mont.

Marssonina populi Lib.
syn. *Leptothyrium populi* Lib.

Massaria inquinans (Tode : Fr.) de Not.
syn. *Sphaeria inquinans* (Tode) Fr.

Melampsora medusae Thüm.
syn. *Uredo medusae* (Thüm.) Arthur

Monilinia fructicola (Winter) Honey
syn. *Sclerotinia fructicola* (Winter) Rehm

Monostichella robergei (Desm.) Höhnel
syn. *Gloeosporium robergei* Desm.

Monostichella salicis (Westend.) v. Arx
syn. *Gloeosporium salicis* Westend.

Mycosphaerella dearnessii Barr
syn. *Scirrhia acicola* (Dearn.) Siggers

Nectria cinnabarina (Tode : Fr.) Fr.
syn. *Sphaeria cinnabarina* Tode

Nothophacidium abietinellum (Dearn.) J. Reid & Cain
syn. *Phacidium abietinellum* Dearn.

Oxyporus populinus (Schumacher : Fr.) Donk
syn. *Fomes connatus* (Weinm.) C. Gillet

Pesotum ulmi (Schwarz) Crane & Schoknecht
syn. *Graphium ulmi* Schwarz

Phacidium abietis (Dearn.) J. Reid & Cain
syn. *Phacidium infestans* Karsten var. *abietis* Dearn.

Phacidium balsamicola (Smerlis) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces balsamicola* Smerlis var. *balsamicola* Smerlis

Phacidium coniferarum (Hahn) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces coniferarum* (Hahn) Smerlis

Phaeocryptopus gaeumannii (Rohde) Petrak
syn. *Adelopus gaeumannii* Rhode

Phaeolus schweinitzii (Fr.) Pat.
syn. *Polyporus schweinitzii* Fr.

Phaeoramularia maculicola (Romell & Sacc.) B. Sutton
syn. *Cladosporium subsessile* Ell. & Barth.

Phellinus everhartii (Ell. & Gall.) A. Ames
syn. *Fomes everhartii* (Ell. & Gall.) von Schrenk & Spaulding

Phellinus igniarius (L. : Fr.) Quélet
syn. *Fomes igniarius* (L. : Fr.) Kickx

Phellinus pini (Brot. : Fr.) A. Ames
syn. *Fomes pini* (Thore : Fr.) Karsten

Phellinus tremulae (Bondartsev) Bondartsev & Borisov
syn. *Fomes igniarius* f. *tremulae* Bondartsev

Phloesporella padi (Lib.) v. Arx
syn. *Cylindrosporium hiemalis* Higg.
syn. *Cylindrosporium prunophorae* Higg.

Phyllosticta sphaeropsoidea Ell. & Ev.
syn. *Phyllostictina sphaeropsoidea* (Ell. & Ev.) Petrak

Podosphaera clandestina (Wallr. : Fr.) Lév.
syn. *Erysiphe clandestina* Wallr. : Fr.

Pollaccia saliciperda (Allescher & Tubeuf) v. Arx
syn. *Fusicladium saliciperdum* (Allescher & Tubeuf) Tubeuf

Pycnoporus cinnabarinus (Jacq. : Fr.) Karsten
syn. *Polyporus cinnabarinus* Jacq. : Fr.

Rhizina undulata Fr.
syn. *Rhizina inflata* P. Karsten

Rhizosphaera pini (Corda) Maubl.
syn. *Coniothyrium pini* Corda

Rhytisma acerinum (Pers.) Fr.
syn. *Xyloma acerinum* Pers.

Sarcotrochila balsameae (J. Davis) Korf
syn. *Phacidium balsameae* J. Davis

Septoria betulae Pass.
syn. *Septoria betulicola* Peck

Sirococcus conigenus (DC.) P. Cannon & Minter
syn. *Sirococcus strobilinus* Preuss

Sphaeropsis sapinea (Fr.) Dyko & B. Sutton
syn. *Diplodia pinea* (Desm.) Kickx

Spiniger meineckellus (A.J. Olson) Stalpers
syn. *Oedocephalum lineatum* Bakshi
syn. *Oedocephalum meineckellus* (A.J. Olson) Donk

Stegonsporium acerium Peck
syn. *Stegonsporium pyriforme* (Hoffm. : Fr.) Corda

Stegonsporium pyriforme (Hoffm. : Fr.) Corda
syn. *Steganosporium ovatum* (Pers. ex Mérat) S. Hughes

Sydowia polyspora (Bref. & Tav.) E. Müller
syn. *Rehmiellopsis bohemica* Bubak and Kleb.

Tubakia dryina (Sacc.) B. Sutton
syn. *Actinopelte dryina* (Sacc.) Höhnel

Tyromyces balsameus (Peck) Murrill
syn. *Polyporus balsameus* Peck

Uncinula adunca (Wallr. : Fr.) Lév.
syn. *Uncinula salicis* (DC.) Winter

Valsa cypri (Tul.) Tul.
syn. *Valsa fraxinina* Peck

Venturia inaequalis (Cooke) Winter
syn. *Sphaerella inaequalis* Cooke

Venturia macularis (Fr.) E. Müller & v. Arx
syn. *Sphaeria macularis* Fr.

PART III

INDEX OF COMMON SYNONYMS OF RECOMMENDED NAMES

Actinopelte dryina (Sacc.) Höhnel
Tubakia dryina (Sacc.) B. Sutton

Adelopus gaeumannii Rhode
Phaeocryptorus gaeumannii (Rhode) Petrak

Armillariella mellea (Vahl : Fr.) P. Karsten
Armillaria mellea (Vahl : Fr.) Kummer

Bifusella crepidiformis Darker
Isthmiella crepidiformis (Darker) Darker

Bifusella faullii Darker
Isthmiella faullii (Darker) Darker

Bursaphelenchus lignicolous Mamiya & Kiyohara
Bursaphelenchus xylophilus (Steiner & Buhrer) Nickle

Ciboria fructicola Winter
Monilinia fructicola (Winter) Honey

Cladosporium subsessile Ell. & Barth.
Phaeoramularia maculicola (Romell & Sacc.) B. Sutton

Coccomyces hiemalis Higg.
Blumeriella jaapii (Rehm) v. Arx

Coccomyces prunophorae Higg.
Blumeriella jaapii (Rehm) v. Arx

Coleosporium solidiganis Thüm.
Coleosporium asterum (Dietel) Sydow

Coniothyrium pini Corda
Rhizosphaera pini (Corda) Maubl.

Coryneum kunzei Corda
Coryneum umbonatum Nees ex Steudel

Cylindrosporella caryae (Peck) Petrak
Asteroma caryae (Peck) B. Sutton

Cylindrosporium fraxini (Ell. & Kell.) Ell. & Ev.
Asteroma fraxini (Berk. & M.A. Curtis) Petrak

Cylindrosporium hiemalis Higg.
Phloesporella padi (Lib.) v. Arx

Cylindrosporium prunophorae Higg.
Phloesporella padi (Lib.) v. Arx

Cytophoma pruinosa (Fr.) Höhnel
Cytospora pruinosa (Fr.) Sacc.

Cytospora friesii Sacc.
Cytospora pinastri Fr.

Dibotryon morbosum (Schwein.) Theiss. & Sydow
Apiosporina morbosa (Schwein.) v. Arx

Diplodia pinea (Desm.) Kickx
Sphaeropsis sapinea (Fr.) Dyko & B. Sutton

Discella acerina (Pass.) v. Arx
Diplodina acerina (Pass.) B. Sutton

Discella carbonacea (Fr.) Berk. & Broome
Diplodina microsperma (Johnston) B. Sutton

Dothichiza populea Sacc. & Briard
Discosporium populeum (Sacc.) B. Sutton

Dothistroma pini Hulb.
Dothistroma septospora (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
Dothistroma septospora (Dorog.) Morelet var. *septospora*

Erysiphe clandestina Wallr. : Fr.
Podosphaera clandestina (Wallr. : Fr.) Lév.

Fomes annosus (Fr.) Karsten
Heterobasidion annosum (Fr.) Bref.

Fomes applanatus (Pers. ex Wallr.) C. Gillet
Ganoderma applanatum (Pers.) Pat.

Fomes connatus (Weinm.) G. Cunn.
Oxyporus populinus (Schumacher:Fr.) Donk

Fomes everhartii (Ell. & Gall.) von Schrenk & Spaulding
Phellinus everhartii (Ell. & Gall.) A. Ames

Fomes igniarius (L. : Fr.) Kickx
Phellinus igniarius (L.: Fr.) Quélet

Fomes igniarius f. *tremulae* Bondartsev
Phellinus tremulae (Bondartsev) Bondartsev & Borisov

Fomes pini (Thore : Fr.) Karsten
Phellinus pini (Brot. : Fr.) A. Ames

Fomes pinicola (Swartz : Fr.) Cooke
Fomitopsis pinicola (Swartz : Fr.) Karsten

Fusicladium saliciperdum (Allescher & Tubeuf) Tubeuf
Pollacia saliciperda (Allescher & Tubeuf) v. Arx

Ganoderma tsugae Murrill
Ganodema lucidum (Curt. : Fr.) Karsten

Gelatinosporium abietinum Peck
Foveostroma abietinum (Peck) DiCosmo

Gloeosporium betulinum Westend.
Discula betulina (Westend.) v. Arx

Gloeosporium boreale Ell. & Ev.
Kabatiella borealis (Ell. & Ev.) v. Arx

Gloeosporium brunneum Ell. & Ev.
Marssonina brunnea (Ell. & Ev.) Magnus

Gloeosporium campestre Pass.
Discula campestris (Pass.) v. Arx

Gloeosporium castagnei Desm. & Mont.
Marssonina castagnei (Desm. & Mont.) Magnus

Gloeosporium platani (Mont.) Oudem.
Discula platani (Peck) Sacc.

Gloeosporium quercinum Westend.
Discula quercina (Westend.) v. Arx

Gloeosporium robergei Desm.
Monostichella robergei (Desm.) Höhnel

Gloeosporium salicis Westend.
Monostichella salicis (Westend.) v. Arx

Gnomonia platani Kleb.
Apiognomonia venata (Sacc. & Speg.) Höhnel

Gnomonia quercina Kleb.
Apiognomonia quercina (Kleb.) Höhnel

Gnomonia venata (Sacc. & Speg.) Kleb.
Apiognomonia venata (Sacc. & Speg.) Höhnel

Graphium ulmi Schwarz
Pesotum ulmi (Schwarz) Crane & Schoknecht

Gremmeniella abietina (Lagerb.) Morelet
Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard

Hypoderma lineare (Peck) Thüm.
Bifusella linearis (Peck) Höhnel

Hypodermella ampla (J. Davis) Dearn.
Davisomycella ampla (J. Davis) Darker

Hypodermella mirabilis Darker
Lirula mirabilis (Darker) Darker

Hypodermella montivaga (Petrak) Dearn.
Lophodermella montivaga Petrak

Hypodermella nervata Darker
Lirula nervata (Darker) Darker

Hypodermella sulcigenum (Rostrup) Tubeuf
Lophodermella sulcigena (Rostrup) Höhnel

Hypoxylon pruinatum (Klozt.) Cooker
Hypoxylon mammatum (Wahlenb.) J. Miller

Kabatiella apocrypta (Ell. & Ev.) v. Arx
Aureobasidium apocryptum (Ell. & Ev.) Hermanides-Nijhof

Keithia thujina E. Durand
Didymascella thujiana (E. Durand) Maire

Lenzites saepiaria (Wulfen : Fr.) Fr.
Gloeophyllum saepiaria (Wulfen : Fr.) Karsten

Leptothyrium populi Lib.
Marssonina populi Lib.

Leucocytospora leucostoma (Pers.) Höhnel
Cytospora leucostoma (Pers. : Fr.) Fr.

Leucocytospora nivea (Hoffm.) Kobayashi
Cytospora nivea (Hoffm.) Fr.

Lophodermium juniperi (Grev.) Darker
Lophodermium juniperum (Fr.) de Not.

Macrophoma tumefaciens Shear
Diplodia tumefaciens (Shear) Zalasky

Naemacyclus minor Butin
Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter

Naemacyclus niveus (Pers. : Fr.) Fuckel ex Sacc.
Cyclaneusma niveum (Pers. : Fr.) DiCosmo, Peredo & Minter

Oedocephalum lineatum Bakshi
Spiniger meineckellus (A.J. Olson) Stalpers

Oedocephalum meineckellus (A.J. Olson) Donk
Spiniger meineckellus (A.J. Olson) Stalpers

Ophiostoma ulmi (Buism.) Nannf.
Ceratocystis ulmi (Buism.) C. Moreau

Phacidium abietinellum Dearn.
Nothophacidium abietinellum (Dearn.) J. Reid & Cain

Phacidium balsameae J. Davis
Sarcotrochila balsameae (J. Davis) Korf

Phacidium infestans Karsten var. *abietis* Dearn.
Phacidium abietis (Dearn.) J. Reid & Cain

Physalospora miyabeana Fukushi
Glomerella miyabeana (Fukushi) v. Arx

Polyporus applanatus Gray
Ganoderma applanatum (Pers.) Pat.

Polyporus balsameus Peck
Tyromyces balsameus (Peck) Murrill

Polyporus cinnabarinus Jacq. : Fr.
Pycnoporus cinnabarinus (Jacq. : Fr.) Karsten

Polyporus circinatus Fr.
Inonotus circinatus (Fr.) Gilbertson

Polyporus fumosus (Fr.) Pers.
Bjerkandera fumosa (Fr.) Karsten

Polyporus resinosus (Fr.) Schrader
Ischnoderma resinosum (Schrader : Fr.) Karsten

Polyporus schweinitzii Fr.
Phaeolus schweinitzii (Fr.) Pat.

Polyporus tomentosus Fr.
Inonotus tomentosus (Fr.) Gilbertson

Polyporus tulipiferae (Schwein.) Overh.
Irpex tulipiferae (Schwein.) Fr.

Polyporus volvatus Peck
Cryptoporus volvatus (Peck) Hubbard

Poria obliqua (Pers. : Fr.) Karsten
Inonotus obliquus (Pers. : Fr.) Pilát

Potebniamyces balsamicola Smerlis var. *balsamicola* Smerlis
Phacidium balsamicola (Smerlis) DiCosmo, Nag Raj & Kendrick

Potebniamyces coniferarum (Hahn) Smerlis
Phacidium coniferarum (Hahn) DiCosmo, Nag Raj & Kendrick

Pullularia pullulans (de Bary) Berkhout
Aureobasidium pullulans (de Bary) Arnaud

Rehmiellopsis balsameae Waterman
Delphinella balsameae (Waterman) E. Müller

Rehmiellopsis bohemica Bubak & Kleb.
Sydowia polyspora (Bref. & Tav.) E. Müller

Rhizina inflata P. Karsten
Rhizina undulata Fr.

Scirrhia acicola (Dearn.) Siggers
Mycosphaerella dearnessii Barr

Scleroderris lagerbergii Gremmen
Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard

Sclerotinia fructicola (Winter) Rehm
Monilinia fructicola (Winter) Honey

Sclerotinia fuckeliana (de Bary) Fuckel
Botryotinia fuckeliana (de Bary) Whetzel

Septoria betulicola Peck
Septoria betulae Pass.

Sirococcus strobilinus Preuss
Sirococcus conigenus (DC.) P. Cannon & Minter

Sphaerella inaequalis Cooke
Venturia inaequalis (Cooke) Winter

Sphaeria cinnabarina Tode
Nectria cinnabarina (Tode : Fr.) Fr.

Sphaeria inquinans (Tode) Fr.
Massaria inquinans (Tode : Fr.) de Not.

Sphaeria macularis Fr.
Venturia macularis (Fr.) E. Müller & v. Arx

Steganosporium ovatum (Pers. ex Mérat) S. Hughes
Stegonsporium pyriforme (Hoffm. : Fr.) Corda

Stegonsporium pyriforme (Hoffm. : Fr.) Corda
Stegonsporium acerinum Peck

Uncinula salicis (DC.) Winter
Uncinula adunca (Wallr. : Fr.) Lév.

Uredo medusae (Thüm.) Arthur
Melampsora medusae Thüm.

Valsa fraxinina Peck
Valsa cypri (Tul.) Tul.

Xyloma acerinum Pers.
Rhytisma acerinum (Pers.) Fr.

PART IV

INDEX OF COMMON NAMES WITH THEIR LATIN BINOMIALS

anthracnose
Apiognomonia quercina (Kleb.) Höhnel
Apiognomonia veneta (Sacc. & Speg.) Höhnel
Aureobasidium apocryptum (Ell. & Ev.) Hermanides-Nijhof
Discula betulina (Westend.) v. Arx
Discula platani (Peck) Sacc.
Discula campestris (Pass.) v. Arx
Discula quercina (Westend.) v. Arx
Gnomonia caryae Wolf var. *caryae*
Gnomonia leptostyla (Fr.) Ces. & de Not.
Kabatiella borealis (Ell. & Ev.) v. Arx

apiosporina witches' broom
Apiosporina collinsii (Schwein.) Höhnel

apple scab
Spilocaea pomi Fr.
Venturia inaequalis (Cooke) Winter

armillaria root rot
Armillaria mellea (Vahl : Fr.) Kummer

ash leaf spot
Mycosphaerella effigurata (Schwein.) House

birch leaf spot
Cylindrosporella betulae-papyriferae (Dearn. & Overh.) v. Arx

black canker
Monostichella salicis (Westend.) v. Arx

black canker of willow
Colletotrichum crassipes (Speg.) v. Arx
Glomerella miyabeana (Fukushi) v. Arx

black knot
Apiosporina morbosa (Schwein.) v. Arx

black root stain
Verticicladiella procera Kendr.

blue stain
Cordana pauciseptata Preuss

branch canker
Cytospora cincta Sacc.

branch canker
Leucostoma cincta (Fr.) Höhnel

brown crumbly rot
Fomitopsis pinicola (Swartz : Fr.) Karsten

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Gloeophyllum saepiaria (Wulfen : Fr.) Karsten
Phaeolus schweinitzii (Fr.) Pat.
Tyromyces balsameus (Peck) Murrill

brown rot
Coniophora puteana (Schumacher : Fr.) Karsten
Monilinia fructicola (Winter) Honey

brown-spot needle blight
Lecanosticta acicola (Thüm.) H. Sydow
Mycosphaerella dearnessii Barr

caliciopsis canker
Caliciopsis pinea Peck

canker
Cornicullariella spina (Berk. & Rav.) DiCosmo
Zythia aurantiaca (Peck) Sacc.

canker and dieback
Discosporium populeum (Sacc.) B. Sutton
Dothiorella quercina (Cooke & Ell.) Sacc.
Hypoxylon cohaerens Pers. : Fr.
Scoleconectria curcurbitula (Tode : Fr.) C. Booth
Zythiostroma pinastri (Karsten) Höhnel

canker, branch dieback
Durandiella fraxini (Schwein. : Fr.) Seaver

cedar-apple rust
Gymnosporangium juniperi-virginianae Schwein.

circinatus root rot
Inonotus circinatus (Fr.) Gilbertson

coccomyces canker
Coccomyces strobi J. Reid & Cain

comandra blister rust
Cronartium comandrae Peck

cytospora canker
Cytospora annulata Ell. & Ev.
Cytospora chrysosperma (Pers. : Fr.) Fr.
Cytospora kunzei Sacc.
Cytospora leucosperma (Pers. : Fr.) Fr.
Cytospora leucostoma (Pers. : Fr.) Fr.
Cytospora nivea (Hoffm.) Fr.
Cytospora pini Desm.
Cytospora pruinosa (Fr.) Sacc.
Leucostoma kunzei (Fr.) Munk

Leucostoma nivea (Hoffm. : Fr.) Höhnel
Leucostoma persoonii (Nitschke) Höhnel
Valsa ambiens (Pers. : Fr.) Fr. spp. *ambiens*
Valsa ambiens (Pers. : Fr.) Fr. spp. *leucostomoides* (Peck) Spielman
Valsa cypri (Tul.) Tul. & C. Tul.
Valsa pini Alb. & Schwein. : Fr.
Valsa sordida Nitschke

delphinella tip blight
Delphinella balsameae (Waterman) E. Müller

dermea twig canker
Dermea balsamea (Peck) Seaver

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Valsa friesii (Duby) Fuckel
Diplodina microsperma (Johnston) B. Sutton

diplodina leaf spot
Diplodina acerina (Pass.) B. Sutton

diplodia twig dieback
Diplodia mutila (Fr.) Mont.

Dutch elm disease
Ceratocystis ulmi (Buism.) C. Moreau
Pesotum ulmi (Schwarz) Crane & Schoknecht

dwarf mistletoe
Arceuthobium americanum Nutt. ex Engel.

eastern dwarf mistletoe
Arceuthobium pusillum Peck

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Cronartium quercuum (Berk.) Miyabe ex Shirai f. sp. *banksianae*

elm canker
Botryodiplodia hypodermia (Sacc.) Petrak

eutypella canker
Eutypella parasitica Davidson & Lorenz

fir broom rust
Melampsorella caryophyllacearum Schröter

fir-willow rust
Melampsora abieti-capraearum Tubeuf

fire blight
Erwinia amylovora (Burr.) Winslow et al.

fireweed rust
Pucciniastrum epilobii Otth

fomes root rot
Heterobasidion annosum (Fr.) Bref.
Spiniger meineckellus (A. Olson) Stalpers

gall rust
Gymnosporangium cornutum Arthur ex Kern

globose gall rust
Gymnosporangium globosum Farlow

gray mold
Botryotinia fuckeliana (de Bary) Whetzel
Botrytis cineria Pers. : Fr.

green stain
Chlorosplenium aeruginascens (Nyl.) Karsten

hemlock-poplar rust
Melampsora abietis-canadensis C.A. Ludwig ex Arthur

hemlock-willow rust
Melampsora epitea Thüm.

hickory leaf spot
Marssonina juglandis (Lib.) Magnus

hypoxylon canker
Hypoxylon mammatum (Wahlenb.) J. Miller

ink spot on aspen
Ciborinia whetzelii (Seaver) Seaver

Keithia needle blight
Didymascella thujina (E. Durand) Maire

larch needle cast
Hypodermella laricis Tubeuf
Meria laricis Vuill.

larch-poplar rust
Melampsora medusae Thüm.

larch-willow rust
Melampsora paradoxa Dietel & Holway

leaf blight
Septoria betulae Pass.

leaf-blister
Taphrina caerulescens (Mont. & Desm.) Tul.

leaf blotch
Guignardia aesculi (Peck) Stewart
Phyllosticta sphaeropsoidea Ell. & Ev.

leaf spot
Atopospora betulina (Fr.) Petrak
Massaria inquinans (Tode : Fr.) de Not.
Monostichella robergei (Desm.) Höhnel
Phaeoramularia maculicola (Romell & Sacc.) B. Sutton
Phyllosticta minima (Berk. & Curt.) Underw. & Earle
Phyllosticta negundinis Sacc. & Speg.
Pleuroceras populi G.E. Thompson
Septoria populicola Peck
Sphaerognomonia carpinea (Fr.) Potebnia
Tubakia dryina (Sacc.) B. Sutton
Venturia acerina Plakidas ex Barr
Didymochora betulina Höhnel

leaf spot of ash
Asteroma fraxini (Berk. & M.A. Curtis) Petrak

leaf spot of hickory
Asteroma caryae (Peck) B. Sutton

linospora leaf blight
Linospora arctica Karsten var. *helvetica* Rehm
Linospora tetraspora G.E. Thompson

maple dieback
Crytodiaporthe hystrix (Tode) Petrak

maple leaf spot
Cladosporium humile J. Davis

marssonina leaf spot
Marssonina brunnea (Ell. & Ev.) Magnus
Marssonina castagnei (Desm. & Mont.) Magnus
Marssonina populi (Lib.) Magnus
Marssonina rhabdospora (Ell. & Ev.) Magnus

nectria canker
Nectria cinnabarina (Tode : Fr.) Fr.
Nectria galligena Bresad.
Tubercularia vulgaris Tode : Fr.

needle blight
Cytospora pinastri Fr.
Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx) Morelet var. thujae
Lophophacidium dooksii Corlett & R. Shoem.
Rhizosphaera kalkhoffii Bubák
Rhizosphaera pini (Corda) Maubl.
Sclerophoma pythiophila (Corda) Höhnel
Sydowia polyspora (Bref. & Tav.) E. Müller

needle cast
Bifusella linearis (Peck) Höhnel
Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter

Cyclaneusma niveum (Pers. : Fr.) DiCosmo, Peredo & Minter
Isthmiella crepidiformis (Darker) Darker
Isthmiella faullii (Darker) Darker
Lirula mirabilis (Darker) Darker
Lirula nervata (Darker) Darker
Lophodermella montivaga Petrak
Lophodermella sulcigena (Rostrup) Höhnel
Lophodermium australe Dearn.
Lophodermium conigenum (Brunaud) Hilitz
Lophodermium juniperinum (Fr.) de Not.
Lophodermium nitens Darker
Lophodermium piceae (Fuckel) Höhnel
Lophodermium pinastri (Schrader : Fr.) Chev.
Lophodermium seditiosum Minter, Staley & Millar

orange stalactiform blister rust
Cronartium coleosporioides Arthur f. sp. *coleosporioides*

pine needle rust
Coleosporium asterum (Dietel) Sydow
Coleosporium pinicola (Arthur) Arthur
Coleosporium viburni Arthur

pinewood nematode
Bursaphelenchus xylophilus (Steiner & Buhrer) Nickle

pink stain
Ascocoryne sarcoides (Jacq. ex Gray) J.W. Groves & D. Wilson
Coryne dubia (Pers.) Gray

plum pockets
Taphrina communis (Sadeb.) Gies.

poplar canker
Cryptodiaporthe populea (Sacc.) Butin

poplar leaf spot
Drepanopeziza populi-albae (Kleb.) Nannf.
Drepanopeziza populorum (Desm.) Höhnel

powdery mildew
Phyllactinia guttata (Wallr. : Fr.) Lév.
Podosphaera clandestina (Wallr. : Fr.) Lév.
Uncinula adunca (Wallr. : Fr.) Lév.

pullularia
Aureobasidium pullulans (de Bary) Arnaud

quince rust
Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck

red band disease
Dothistroma septospora (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton var. *septospora*
Mycosphaerella pini Rostrup

red ring rot
Phellinus pini (Brot. : Fr.) A. Ames

rhabdocline needle cast
Rhabdocline pseudotsugae Sydow ssp. *pseudotsugae*

root and butt rot
Ganoderma lucidum (Curt. : Fr.) Karsten

root rot
Calonectria kyotensis Terashita
Cylindrocladium floridanum Sob. & C.P. Seym.

rough bark
Diplodia tumefaciens (Shear) Zalasky
Keissleriella emergens (Karsten) Bose

sap streak
Ceratocystis coerulescens (Münch) Bakshi
Chalara ungeri Sacc.

scleroderris canker
Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard
Brunchorstia pinea (P. Karsten) Höhnel

septoria canker
Septoria musiva Peck

septoria leaf spot
Septoria aceris (Lib.) Berk. & R. Br.
Mycosphaerella populicola G.E. Thompson
Mycosphaerella populorum G.E. Thompson

shoot blight
Pollaccia elegans Servit
Sirococcus conigenus (DC.) P. Cannon & Minter
Venturia macularis (Fr.) E. Müller & v. Arx
Venturia populina (Vuill.) Fabric.

shoot blight of aspen
Pollaccia radiosa (Lib.) Bald. & Cif.

shot-hole
Blumeriella jaapii (Rehm) v. Arx
Phloesporella padi (Lib.) v. Arx

snow blight
Lophophacidium hyperboreum Lagerb.
Nothophacidium abietinellum (Dearn.) J. Reid & Cain
Phacidium abietis (Dearn.) J. Reid & Cain
Phacidium balsamicola (Smerlis) DiCosmo, Nag Raj & Kendrick
Phacidium coniferarum (Hahn) DiCosmo, Nag Raj & Kendrick
Phacidium infestans Karsten
Sarcotrochila balsameae (J. Davis) Korf
Sarcotrochila piniperda (Rehm) Korf

speckle tar spot
Melasmia punctata Sacc. & Roum.
Rhytisma punctatum (Pers.) Fr.

spruce broom rust
Chrysomyxa arctostaphyli Dietel

spruce cone rust
Chrysomyxa pirolata (Körn.) Winter

spruce needle rust
Chrysomyxa ledi (Alb. & Schwein.) de Bary var. *ledi* var. *cassandrae* (Peck & G.P. Clinton) Savile
Chrysomyxa ledicola (Peck) Lagerh.

sweet fern blister rust
Cronartium comptoniae Arthur

Swiss needle cast
Phaeocryptopus gaeumannii (Rohde) Petrak

tar spot
Melasmia acerina Lév.
Melasmia salicina Lév.
Rhytisma acerinum (Pers.) Fr.
Rhytisma salicinum (Pers.) Fr.

tar spot needle cast
Davisomycella ampla (J. Davis) Darker

tea pot fungus
Rhizina undulata Fr.

therrya canker
Therrya fuckelii (Rehm) Kujala

tip blight
Sphaeropsis sapinea (Fr.) Dyko & B. Sutton

tomentosus root rot
Inonotus tomentosus (Fr.) Gilbertson

trichoderma
Trichoderma viride Pers. : Fr.

trunk rot
Cryptoporus volvatus (Peck) Hubbard
Ischnoderma resinosum (Schrader : Fr.) Karsten

twig and shoot blight
Coryneum umbonatum Nees ex Steudel
Pseudovalsa longipes (Tul.) Sacc.

twig blight
Cenangium ferruginosum Fr. : Fr.

twig canker
Cytosporina ludibunda (Sacc.) Sacc.
Foveostroma abietinum (Peck) DiCosmo

twig dieback
Botryosphaeria stevensii R. Shoem.

tympanis canker
Tympanis hypopodia Nyl.

walnut leaf spot
Cylindrosporium juglandis Wolf
Mycosphaerella juglandis Kessler

western gall rust
Endocronartium harknessii (J.P. Moore) Y. Hirats.

white mold
Microstroma juglandis (Bereng.) Sacc.

white mottled rot
Fomes fomentarius (Fr.) Kickx
Ganoderma applanatum (Pers. ex Gray) Pat.

white pine blister rust
Cronartium ribicola J.C. Fischer

white rot of hardwoods
Bjerkandera fumosa (Fr.) Karsten

white sap rot
Irpex tulipiferae (Schwein.) Fr.
Pycnoporus cinnabarinus (Jacq. : Fr.) Karsten

white spongy rot
Inonotus obliquus (Pers. : Fr.) Pilát
Oxyporus populinus (Schumacher : Fr.) Donk
Phellinus everhartii (Ell. & Gall.) A. Ames

white trunk rot
Phellinus igniarius (L. : Fr.) Quélet
Phellinus tremulae (Bondartsev) Bondartsev & Borisov

willow dieback
Cryptodiaporthe salicella (Fr.) Petrak

willow scab
Pollaccia saliciperda (Allescher & Tubeuf) v. Arx
Venturia saliciperda Nüesch

witches' broom on blueberry
Pucciniastrum goeppertianum (Kühn) Kleb.

verticillium wilt
Verticillium albo-atrum Reinke & Berth.
Verticillium dahliae Kleb.